

CLAIMS

1. An image generating apparatus comprising:
a storage section for storing a plurality of frame information; and
an information generating section for generating static image information indicating a static image based on the plurality of frame information stored in the storage section,
wherein the plurality of frame information is information indicating a plurality of frames representing a static image taken during a predetermined exposure period, and the information has been corrected in accordance with an amount of shaking motion between the plurality of frames.
2. An information generating apparatus according to claim 1, wherein the information generating section generates the static image information by simultaneously calculating the plurality of frame information stored in the storage section.
3. An information generating apparatus according to claim 1, wherein the information generating section generates the static image information by sequentially calculating each of the plurality of frame information stored in the storage section.
4. An information generating apparatus according to claim 1, wherein the plurality of frame information are generated based on information generated by adding information indicating a plurality of pixels included in an image pickup plane of an image pickup element in at least one of a horizontal direction and a vertical direction.

5. An image pickup apparatus for taking a static image during a predetermined exposure period, comprising:
- a shaking motion detecting section for detecting an amount of shaking motion between a plurality of frames representing the static image;
 - a shaking motion correcting section for correcting a plurality of frame information indicating the plurality of frames in accordance with the detected amount of the shaking motion;
 - a storage section for storing the plurality of frame information subjected to the correction of the shaking motion; and
 - an information generating section for generating static image information indicating the static image based on the plurality of frame information stored in the storage section.
6. An image pickup apparatus according to claim 5, wherein the information generating section generates the static image information by simultaneously calculating the plurality of frame information stored in the storage section.
7. An image pickup apparatus according to claim 5, wherein the information generating section generates the static image information by sequentially calculating each of the plurality of frame information stored in the storage section.
8. An image pickup apparatus according to claim 5, further comprising a resolution changing section for changing a resolution of the plurality of frames in accordance with the amount of the shaking motion.

9. An image pickup apparatus according to claim 8, further comprising a frame rate changing section for changing a frame rate in accordance with the amount of the shaking motion,

wherein the frame rate indicates the number of the plurality of frames representing the static image taken per unit time.

10. An image pickup apparatus according to claim 5, further comprising a resolution changing section for changing a resolution of the plurality of frames in accordance with a brightness.

11. An image pickup apparatus according to claim 10, further comprising a resolution changing section for changing a resolution of the plurality of frames in accordance with a zoom ratio.

12. An image pickup apparatus according to claim 5, wherein:
the shaking motion detecting section detects the amount of the shaking motion based on information generated by adding information indicating a plurality of pixels included in an image pickup plane of an image pickup element, and
the shaking motion correcting section corrects the plurality of frame information by cutting out a part of the plurality of frame information in accordance with the amount of the shaking motion.

13. An image pickup apparatus according to claim 5, wherein:
the shaking motion detecting section detects the amount of the shaking motion based not on information generated based on a plurality of pixels included in an image pickup plane of an image pickup element.

14. An image pickup apparatus according to claim 5, further comprising a determining section for determining whether or not the predetermined exposure time is greater than a predetermined value, and

wherein, when it is determined that the predetermined exposure time is greater than the predetermined value, the shaking motion detecting section detects the amount of the shaking motion based on information generated by adding information indicating a plurality of pixels included in an image pickup plane of an image pickup element.

15. An image pickup method for taking a static image during a predetermined exposure period, comprising the steps of:

detecting an amount of shaking motion between a plurality of frames representing the static image;

correcting a plurality of frame information indicating the plurality of frames in accordance with the detected amount of the shaking motion;

storing the plurality of frame information subjected to the correction of the shaking motion; and

generating static image information indicating the static image based on the plurality of frame information stored in the storage section.